

AMENDMENT AND RESPONSE TO OFFICE ACTION

**In the Claims**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims**

Please amend the claims as indicated:

1.- 14. (Cancelled).

15. (Previously presented) A medical device, comprising,

a) a wound dressing comprising more than two layers of a fibrous material;

wherein the material contains nonmetalized fibers and fibers that are at least partially coated with a metallic material to yield metalized fibers, each layer being joined to an adjacent layer and having a ratio of metalized fibers to nonmetalized fibers; and

b) an appliance, wherein the wound dressing is incorporated into the appliance such that the layers of the wound dressing form a gradient of metalized fiber to nonmetalized fiber ratios, the highest ration layer capable of being placed in contact with a wound site.

16. (Previously presented) The medical device of Claim 15, wherein the appliance is shaped for a use selected from the group consisting of orthopedic, dental, catheter, packing a body cavity, an ostomy site, a tracheostomy site, and around external fixture pin structures.

**AMENDMENT AND RESPONSE TO OFFICE ACTION**

17. (Previously presented) The medical device of Claim 15 wherein the appliance has a tubular shape.

18. (Previously presented) The medical device of Claim 17 wherein the appliance is a wound drain.

19.-22. (Cancelled).

23. (Previously presented) A medical device comprising:  
conformable, conductive fabric comprising a biologically inert polymer uniformly coated with an antimicrobial metal, wherein said conformable, conductive fabric has a surface resistivity of less than about 1 Ohm/in<sup>2</sup> and interiorly shifts a pathology's maximum electrical resistance by an amount sufficient to induce an analgesic effect when in contact with a pathology.

24. Cancelled.

25. Cancelled.

26. (Previously presented) The medical device of claim 23, wherein said shift stimulates healing.

**AMENDMENT AND RESPONSE TO OFFICE ACTION**

27. (Previously presented) The medical device of claim 23, further comprising a moisture retaining layer.

28. (Previously presented) The medical device of claim 23, wherein said polymer is coated using a solution electroless plating process.

29. (Previously presented) The medical device of claim 28, wherein said metal comprises silver.

30. (Previously presented) The medical device of claim 23, wherein the conductive layer comprises a surface resistance of less than about 1000 ohms/cm<sup>2</sup>.

31. (Previously presented) A medical device comprising:

at least one layer of conformable, conductive fabric material having a surface resistance less than about 1 ohms/cm<sup>2</sup>, wherein said at least one layer of conformable, conductive fabric material comprises a biologically inert polymer and a conductor; and wherein said medical device induces an analgesic effect by interiorly shifting a pathology's maximum electrical resistance when applied to the pathology.

**AMENDMENT AND RESPONSE TO OFFICE ACTION**

32. (Previously presented) A medical device comprising:

at least one layer of conductive material comprising at least two plies of a conductor, wherein the at least one layer of conductive material has a surface resistance less than about 1 ohms/cm<sup>2</sup>, and wherein at least one of said at least two plies of a conductor comprises a biologically inert polymer, and wherein the device interiorly shifts a pathology's maximum electrical resistance when in conductive contact with the pathology by an amount effective to promote healing and induce an analgesic effect.

33. Cancelled.

34. (Previously presented) The wound dressing of claim 23, wherein the fibers are electrolessly plated with a metal or metal alloy.

35. (Previously presented) The wound dressing of claim 34, wherein the metal or metal alloy comprises silver.

36. (Previously presented) The wound dressing of claim 1, wherein the surface resistance of the conformable, conductive fabric is less than about 1 Ohm/in<sup>2</sup>.